48

46



SEQUENCE LISTING

<110> THIEL, Heinz-Jurgen

BECHER, Paul ORLICH, Michaela

<120> PESTIVIRUS MUTANTS AND VACCINES CONTAINING THE SAME

<130> THIEL ET AL.

<140> 09/839,796

<141> 2001-04-19

<150> EP00201421.5

<151> 2000-04-21

<160> 24

<170> PatentIn Ver. 2.1

<210> 1

<211> 48

<212> DNA

<213> Pestivirus sp.

<400> 1

tacgctagca tttaggtgac actatagtat acgaggttag gcaagttc

<210> 2

<211> 47

<212> DNA

<213> Pestivirus sp.

<400> 2

tacgctagca tttaggtgac actatagata cgaggttagg caagttc 47

<210> 3

<211> 46

<212> DNA

<213> Pestivirus sp.

<400> 3

tacgctagca tttaggtgac actatagtat aaggttaggc aagttc

<210> 4

```
<211> 61
<212> DNA
<213> Pestivirus sp.
<400> 4
tacgctagca tttaggtgac actatagtat acgaggttaa gttctcgtat acatattgga 60
                                                                   61
<210> 5
<211> 51
<212> DNA
<213> Pestivirus sp.
<400> 5
tacgctagca tttaggtgac actataggcg acgaggttag gcaagttctc g
                                                                   51
<210> 6
<211> 53
<212> DNA
<213> Pestivirus sp.
<400> 6
tacgctagca tttaggtgac actatagtat gtaaggttag gcaagttctc gta
                                                             53
<210> 7
<211> 60
<212> DNA
<213> Pestivirus sp.
<400> 7
tacgctagca tttaggtgac actatagtat acgagaactg gcaagttctc gtatacatat 60
<210> 8
<211> 82
<212> DNA
<213> Pestivirus sp.
<400> 8
tacgctagca tttaggtgac actatagtat acgaggttag gcaagttctc gtccccatat 60
                                                                   82
tggacactct aaaaataatt ag
<210> 9
<211> 47
```

<212> DNA	
<213> Pestivirus sp.	
(210) 100011110 05.	
4400× 0	
<400> 9	47
tacgctagca tttaggtgac actatagtat acatattgga cactcta	4,
<210> 10	
<211> 45	
<212> DNA	
<213> Pestivirus sp.	
•	
<400> 10	
tacgctagca tttaggtgac actatagaca tattggacac tctaa	45
tacgctagea tetaggigae actatagaea tatigguede totau	
<210> 11	
<211> 52	
<212> DNA	
<213> Pestivirus sp.	
<400> 11	
tacgctagca tttaggtgac actatagtat tggacactct aaaaataatt ag	52
<210> 12	
<211> 50	
<212> DNA	
<213> Pestivirus sp.	
<400> 12	
tacgctagca tttaggtgac actatagtat cctaggggac aaaaatcctc	50
<210> 13	
<211> 46	
<212> DNA	
<213> Pestivirus sp.	
<400> 13	4.5
tacgctagca tttaggtgac actatagtat cctccttagc gaaggc	46
<210> 14	
<211> 96	
<212> RNA	
· · · · · · · · · · · · · · · · ·	

<213> Pestivirus sp.

<400> 14	•		•			
guauacgaga uua	gcuaaag	uacucguaua	cggauuggac	gucgacaaac	uuugaauugg	60
caacacaggg `aac	cuucccc	ucggcgaagg	ccgaaa			96
<210> 15						
<211> 88						
<212> RNA						
<213> Pestivir	us sp.					
	•					
<400> 15						
guauacgagg uua	gcucuuu	cucguauacg	auauuggaua	cacuaaauuu	cgauuugguc	60
uagggcaccc cuc	cagcgac	ggccgaaa				88
<210> 16						
<211> 89						
<212> RNA						
<213> Pestivir	us sp.					
<400> 16						
guauacgagg uua			ugauuggaca	aaucaaaauc	ucaauuuggu	
ucagggccuc ccu	ıccagcga	cggccgagc				89
	•					
<210> 17						
<211> 100						
<212> RNA						
<213> Pestivir	us sp.					
<400> 17						
guauacgagg uua	aacaaan	ucucquauac	auauuggaca	cucuaaaaau	aauuaggccu	60
aggggacaaa aau				Juduuuuu	aaaaaggoou	100
.,,,,,			3			
<210> 18						
<211> 98						
<212> RNA						
<213> Pestivir	us sp.					
<400> 18			•			
guauacgagg uua	ggcaagu	ucucguauac	auauuggaca	cucuaaaaa	aaauaauuag	60
gccuagggga caa					_	98
<210> 19						
<211> 31						

ř

<212> RNA

<213> Pestivirus sp.	•			
<400> 19				
guauccuccu uagcgaaggc cgaaaagagg	С			31
<210> 20				
<211> 33				
<212> RNA				
<213> Pestivirus sp.				
<400> 20				
guauauccuc cuuagcgaag gccgaaaaga	ggc			33
<210> 21				
<211> 34				
<212> RNA				
<213> Pestivirus sp.				
<400> 21				
guauccuccu ccuuagcgaa ggccgaaaag	aggc			34
<210> 22				
<211> 96				
<212> RNA				
<213> Pestivirus sp.				
<400> 22				
guauacgaga auuagaaaag gcacucguau	acquauuggg	caauuaaaaa	uaauaauuag	60
gccuagggaa caaaucccuc ucagcgaagg				96
<210> 23				
<211> 93				
<212> RNA				
<213> Pestivirus sp.				
4400 02				
<400> 23 guauacgaga auuugccuaa ccucguauac	auauugggca	uucuaaaaau	aaauuaggcc	6(
uaagggacaa auccuccuua gcgaaggccg			33	93
<210× 24				
<210> 24 <211> 87				
<212> RNA				
<213> Pestivirus sp.				

<400> 24	•		•				
guauacggga	guagcucaug	cccguauasà	aaauuggaua	uuccaaaacu	cgauuggguu	60	
agggagcccu	ccuagcgacg	gccgaac				87	